Nakamichi®

NA851

Car Audio System Player

INSTRUCTION MANUAL

RADIO MP3 WMA USB BT AUX-IN

Contents

Safety

WARNING
Stop the car before operating the unit.

Important to know...

★ To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

★ **Caution**: Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident.

★ **Condensation:** When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.

★ The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.

★ If you experience problems during installation, consult your Nakamichi dealer.

★ When you purchase external components, check with your Nakamichi dealer to make sure that they work with your model and in your area.
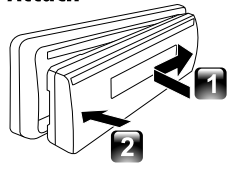
Maintenance
Cleaning the unit: Wipe off the dirt on the panel with a dry silicon or soft cloth. Failure to observe this precaution may result in damage to the monitor or unit.

Cleaning the connector: Wipe off dirt on the connector of the unit and faceplate. Use a cotton swab or cloth.
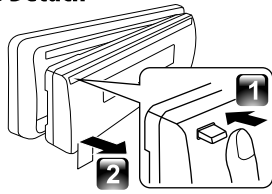
Preparation

How to attach/detach the faceplate

Attach   Detach


★ Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.

★ Keep the faceplate in its casing while detached.

★ The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.

★ To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.
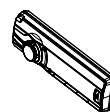
How to reset your unit
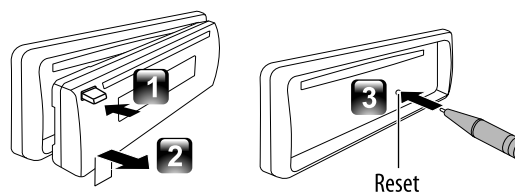
Reset

★ If this unit fails to operate properly, press the reset button.

★ The unit return to factory setting when the reset button is pressed.

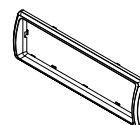# What's in the box

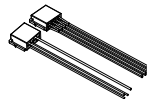Check and identify the contents of your package:

Main unit (with sleeve)   Front panel   Trim plate

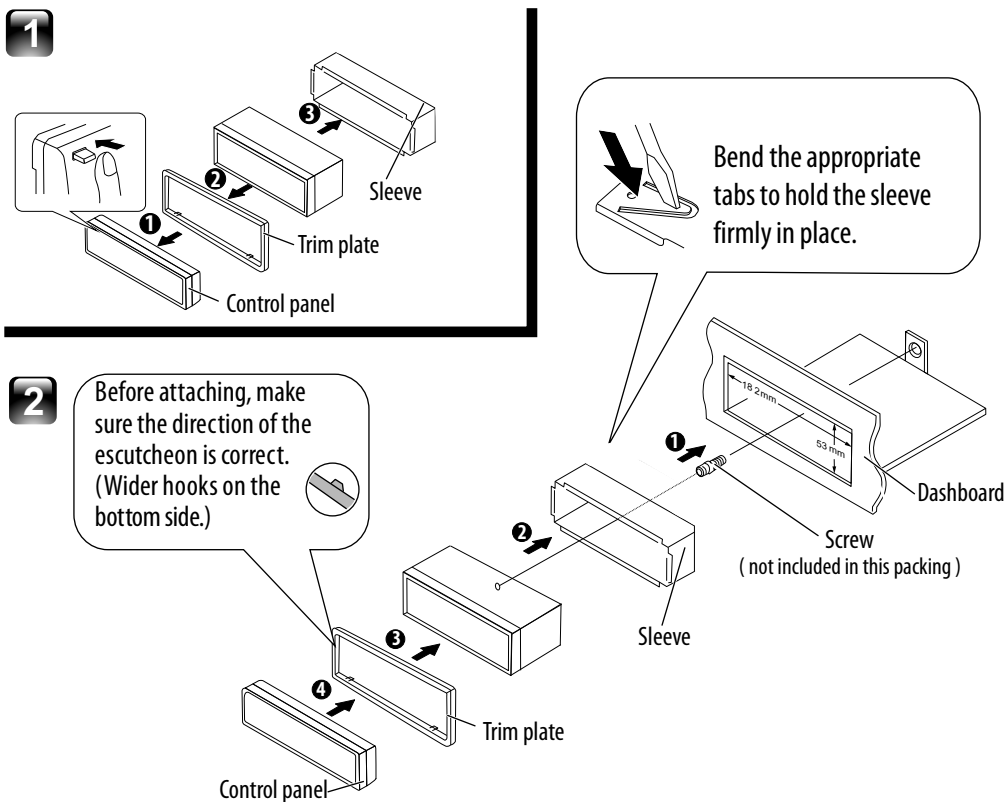Remote control   ISO male connector   Disassembly tool (2pcs)


User manual   Screw x 2pcs

Installing the unit

1

Sleeve

Trim plate

Control panel

Bend the appropriate tabs to hold the sleeve firmly in place.

2

Before attaching, make sure the direction of the escutcheon is correct. (Wider hooks on the bottom side.)

18.2 mm

53 mm

Dashboard

Screw
(not included in this packing)

Sleeve

Trim plate

Control panel

Removing the unit

1 Detach the control panel.

2 Engage the catch pin on the removal tools into the holes on both sides of the escutcheon, then pull it out.

3 Insert the disassembly tools deeply into the slots on each side, then follow the arrows instructions as shown on the right.

Disassembly

Trim plate

Sleeve

Disassembly

Control panel
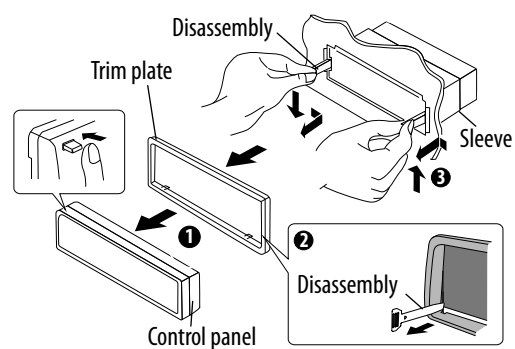
Installation / Connection

Basic Procedure

1 Remove the key from the ignition switch, then disconnect the $\ominus$ terminal of the car battery.

2 Make proper input and output wire connections.

3 Install the unit to your car.

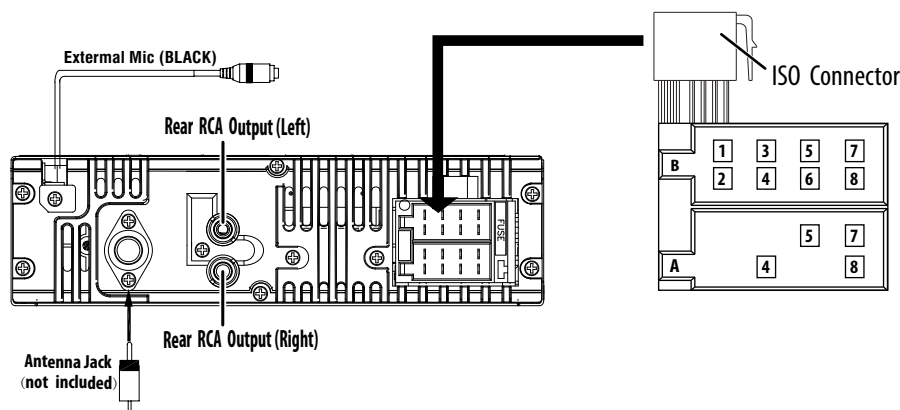**4** Reconnect the $\ominus$ terminal of the car battery.

5 Reset the unit.

Warning

★ The unit can only be installed in a car with a 12 V DC power supply, negative ground.

★ If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

★ Disconnect the battery's negative terminal and make all electrical connections before installing the unit.

★ Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.

★ Be sure to ground this unit to the car's chassis again after installation.

★ If the power is not turned ON, the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.

Caution

★ If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.

★ Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.

★ After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.

★ Mount the unit so that the mounting angle is 30° or less.

★ If the fuse blows, first make sure the wires are not touching to cause a short circuit, then replace the old fuse with one that has the same rating.

★ Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the $\ominus$ wires or ground them to any metal part in the car.

★ When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear).

★ Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals.

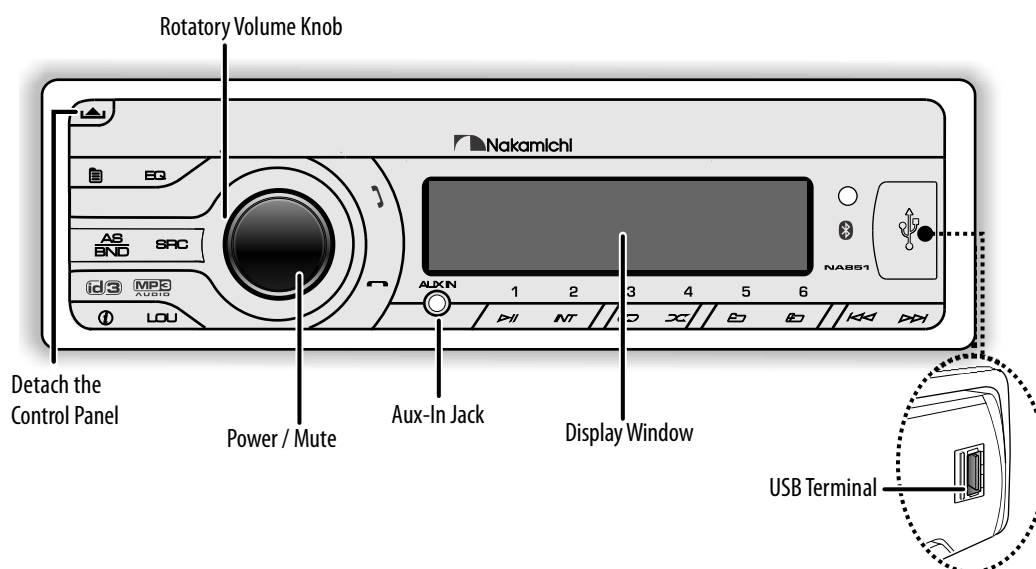If you experience problems during installation, consult your Nakamichi dealer.

Wiring Connection

External Mic (BLACK)

Rear RCA Output (Left)

Rear RCA Output (Right)

Antenna Jack (not included)
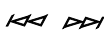
ISO Connector

ISO Connector Wiring Chart

Pin	Color and function		Pin	Color and function	
A4	Yellow	Battery(+)	B1/B2	Violet $\oplus$ / Violet/Black $\ominus$	Right rear speaker
A5	Blue	Connect to system control terminal of the power AMP or auto antenna relay control terminal (Max 150MA 12VDC)	B3/B4	Grey $\oplus$ / Grey/Black $\ominus$	Right front speaker
A7	Red	Ignition(ACC)	B5/B6	White $\oplus$ / White/Black $\ominus$	Left front speaker
A8	Black	Ground	B7/B8	Green $\oplus$ / Green/Black $\ominus$	Left rear speaker

Basic Operation

Rotatory Volume Knob

Detach the Control Panel

Power / Mute

Aux-In Jack

Display Window

USB Terminal

When you press or hold the following button(s)...

Main unit	General operation
SRC	Select the available sources (AUX Input, Bluetooth, Tuner, USB).
Rotatory Volume knob	Rotate it to increase or decrease the volume.
	Select items.
⏻ 🔇 Power / Mute	■ Turn mute or restore volume. ■ Turn the unit on. Press and hold again to turn the unit off.
AS BND	■ Select the FM bands (FM1/ FM2/ FM3) or AM1 (MW1) / AM2 (MW2). ■ Under media playback press and hold to access into search mode. ■ Press and hold to activate the Auto Store function. ■ Press this button and will show the ID3 information when media playback.
1 ▶❚❚	Pause/resumes playback of a USB device.
◀◀ ▶▶	■ Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode. ■ Under Media playback mode to skip track / file, press and hold to fast forward / backward.
🗎	■ To access into Audio Menu mode, press and hold to enter into the System Menu mode. ■ Confirm button during song selections.
LOU	Press to turn On or Off dynamic bass boost sound.
ⓘ	■ Clock Informations. ■ Press and hold to adjust the hours.
EQ	To adjust the EQ (Preset Equalizer) setting.
📞	■ To answer / accept the call. ■ During the talking, press and hold to transfer the call.
☎	To reject/end the call.

Function Setting

1 Press 📄 to access into the **[AUDIO MENU]** mode, press and hold to enter into the **[MENU]** mode.

2 Press **[MENU]** repeatedly to select the item to be adjusted.

3 Turn the encoder volume knob to select a value / option.

[AUDIO MENU]

Item	Selectable Setting
BASS ADJUST	
BASS LEVEL	Adjust the level -7 to +7.
TREBLE ADJUST	
TREBLE LEVEL	Adjust the level -7 to +7.
BALANCE	Adjust the balance between the right and left speakers from 10R (full right) to 10L (full left).
FADER	Adjust the fader between the front and rear speakers from 10R (full rear) to 10F (full front).

[MENU] Mode Setting

1 Press and hold 📄 to enter into the **[MENU]** mode.

2 Press **[MENU]** repeatedly to select the item to be adjusted.

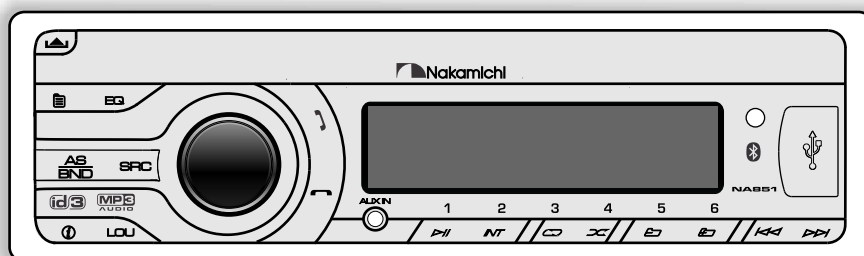3 Turn the encoder volume knob to select a value / option.

Item	Selectable Setting
RDS On/Off	Turn On or Off the RDS function.
PTY (Program Type)	Once into the PTY mode, rotating encoder volume knob to selected category. ■ **Available Program Type:** The current PTY code is displayed on the LCD, use the 6 preset buttons to select the other PTY code, the distribution of program type are as follow: _table below_ When PTY code is selected, the radio will search the band for the station that matches the PTY code.
AF (Alternate Frequencies)	■ ON: The unit will be searches for another station with stronger signal, but with the same program identification as the current station automatically. ■ OFF: Cancel
TA (Traffic Announcement)	■ ON: When there is traffic announcement, the unit switches to the tuner mode (regardless of the current mode) and begins to broadcast the announcemet on traffic conditions. When the traffic announcement is over, it returns to the previous mode. ■ OFF: Traffic announcement does not cut in.
LOC On/Off	To receive more radio stations or only stations with strong signal, you can adjust the radio sensitivity.
AREA	Select suitable country region of the radio: USA; LATIN; EUROPE; RUSSIA(Oirt); M-EAST; ASIA; JAPAN; AUST (Australia)
CLOCK FORMAT	Select the time format 12H or 24H

PTY table

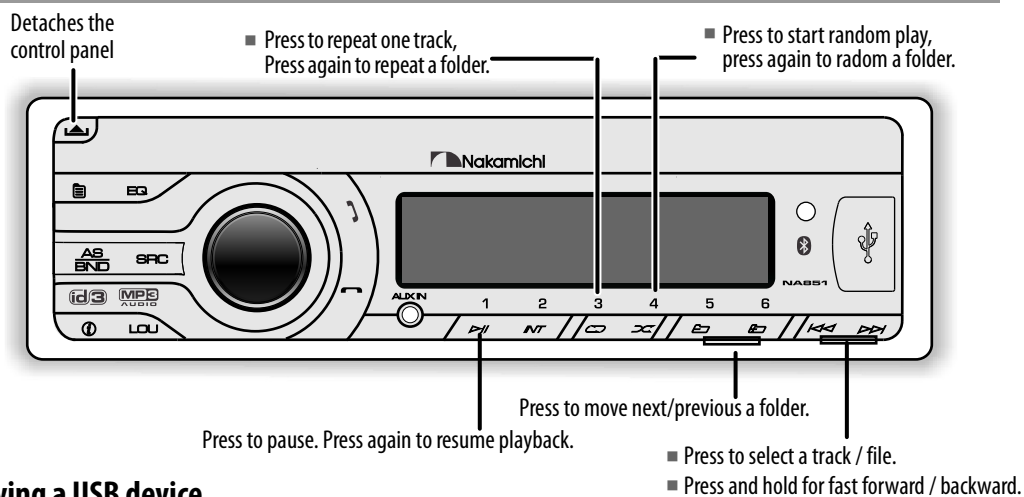| Button Number	Music Group	Speech Group
M1	POP,ROCK	NEWS,AFFAIRS,INFO
M2	EASY,LIGHT	SPORT,EDUCATE,DRAMA
M3	CLASSICS,OTHER	CULTURE,SCIENCE,VARIED
M4	JAZZ,COUNTRY	WEATHER,FINANCE,CHILDREN
M5	NATION,OTHERS	SOCIAL,RELIGION,PHONEIN
M6	FOLK	TRAVEL,LEISURE,DOCUMENT

Listening to the Radio

■ Hold for about 2 seconds to memorize the current station .
■ Press briefly to recall memorized station.

1 Press **BND** repeatedly to a band (FM1, FM2, FM3, AM1(MW1) or AM2 (MW2) .

2 Press ◄◄ ►► to search for a station.

USB/ device

Detaches the control panel

■ Press to repeat one track, Press again to repeat a folder.

■ Press to start random play, press again to radom a folder.

Press to move next/previous a folder.

Press to pause. Press again to resume playback.

■ Press to select a track / file.
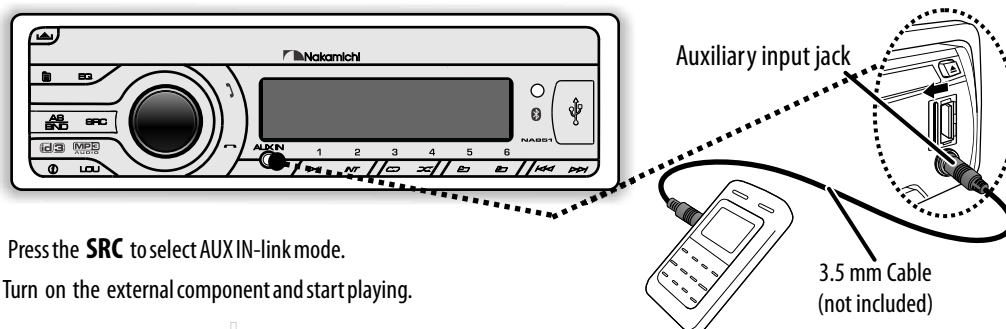■ Press and hold for fast forward / backward.

Playing a USB device

1 Slide the USB socket cover market ⟵⟶ to the left.

2 Insert the USB device into the USB socket. The unit starts playing from the USB device automatically.
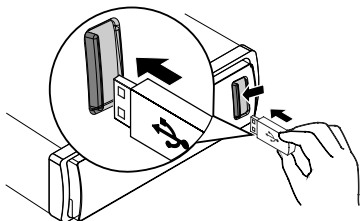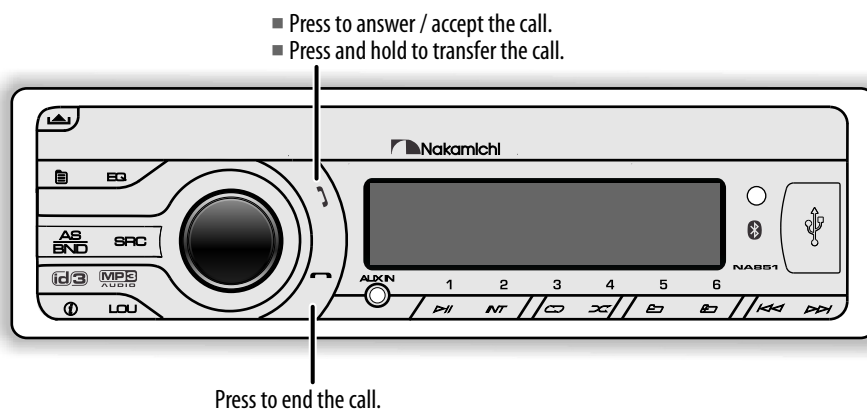
Listening to the other external components

Auxiliary input jack

1 Press the **SRC** to select AUX IN-link mode.

2 Turn on the external component and start playing.

3.5 mm Cable (not included)

Operation of Bluetooth Hands-Free

■ Press to answer / accept the call.
■ Press and hold to transfer the call.

Press to end the call.

You can make or receive phone calls with Bluetooth-enabled phones through the unit. You can also listen to music from a Bluetooth-enabled device.

Getting Started

Before use the Bluetooth device, you need to pair the device to the unit. Pairing needs only to be done once.

Pairing the Bluetooth devices

1 Open your mobile phone and switch bluetooth on.

2 Search for other bluetooth device with your device.

3 Select **"NAKAMICHI"** in the pairing list.

4 **[BT ON]** will be displayed on the panel if pairing is successful, and the paired device will connect to the car audio system automatically.

Making a Call

You can dial number through the mobile phone.

1 Use the Mobile Phone to dial and make an outgoing call.

2 Once completed the dialing, **[CALLING]** is displayed.

To redial number

1 Press ↲ on front panel to redial.

2 The unit will display **[CALLING]**, and the unit starts dialing the number dialed last time.

Remark:

To make an outgoing call on this unit, the bluetooth connection between the unit and the phone must be active.

Receiving a Call

1 If there is incoming call, the phone number is displayed. if the incoming call has no phone number, **[PHONE IN]** is displayed.

2 Press ↲ to answer / accept the call.

3 When conversation ends, press ← to terminate the call.

Call Transfer

You can transfer voice from loudspeaker to mobile phones during call.

During talking, press and hold ↲ voice transfers from loudspeaker to mobile phone.

Bluetooth Audio Streaming A2DP

If the connected Bluetooth device supports Advanced Audio Distribution Profile (A2DP), you can listen to the music stored on the device through the unit. If the device also supports Audio Video Remote Control Profile (AVRCP) profile, you can use the control on the unit or its remote control to play music stored on the device.

1 Press **SRC** repeatedly to select **[BT]**.

2 Press ▶❚❚ to start play, press it again to pause.

3 To track up/down, press ❙◀◀ / ▶▶❙.

Remote Control Operation
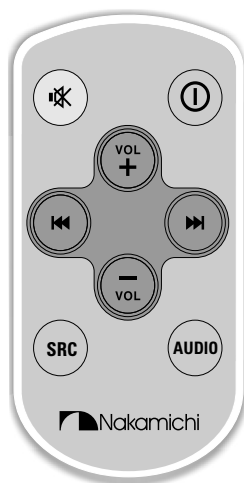
When you press or hold the following button(s)...

Main unit	General operation
🔇	Turn mute or restore volume.
⏻	Press turn the unit on or off.
VOL +	Press increase the volume.
— VOL	Press decrease the volume.
⏮/⏭	▪ Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode. ▪ Under Media playback mode to skip track / file, press and hold to fast forward / backward.
SRC	Select the available sources (Radio, BT, USB or Aux-In).
AUDIO	Press to access into the Audio Menu mode.

Product Information

General
Power Supply: 12V DC (10.5-14.4V), negative ground
Fuse: 15A
Suitable Speaker Impedance: 4 -8Ω
MP3-Link level: 500mV

Audio Section
Maximum Power Output: Mosfet 50W x 4 Channels
Continous Power Output: 22W x 4 RMS
Built- in RCA for Rear Speaker:1.5V

FM tuner section
Frequency Range: 87.5 - 108MHz
Usable Sensitivity: Better than 15dB at S/N 30dB

AM tuner section
Frequency Range: 522 - 1620KHz
Usable Sensitivity: Better than 45dB at S/N 26dB

USB devices
USB Flash Memory: USB 1.1 & 2.0 Compatible

About Audio file
- USB or memory file system: FAT16, FAT32
- MP3/WMA bit rate: 32-320kbps and varible bit rate
- MP3 sampling frequencies: 8-48kHz
- WMA sampling frequencies: 32kHz, 44.1kHz, 48kHz
- ID3 tag v1.0 or later

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference,and

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body
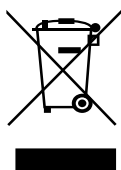
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